

One component mineral  
based waterproof slurry  
«Negative waterproofing!»



**AQUAFIN®-1K**

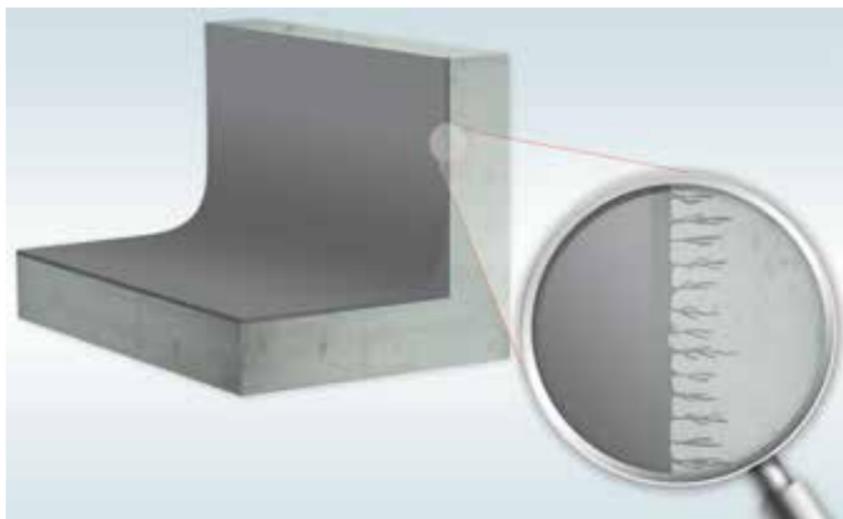
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## Why AQUAFIN®-1K

**AQUAFIN®-1K** is a rigid waterproof slurry for the inside and the outside. It resists the sulfate and is suitable for all types of support in the construction. It is open to diffusion, resistant to ageing and UV. In addition, it is certified waterproof against negative water pressure up to 1,5 bar.

## How does it work?

After application, a strong bond is created between the support and **AQUAFIN®-1K**, which becomes an integral part of the substrate. **AQUAFIN®-1K** thus forms a waterproof barrier.



# What is a negative waterproofing?

The typical case of a negative waterproofing exists when water penetrates a wall by a face and the waterproofing layer is applied on the opposite side. To make a negative waterproofing is more difficult than to make a positive waterproofing because then, the water has crossed the construction element, has arrived at the level for example, the layer of paint or tile flooring and tries to take it off from the wall.

## Example of construction where a negative waterproofing is required:

- Internal waterproofing of cellar walls
- External waterproofing of water tanks
- Internal waterproofing of elevator shafts
- Internal waterproofing of tunnels
- Waterproofing of low permeable floors



## Application domains

1. Subsequent negative waterproofing against water infiltration
2. External waterproofing of new and old construction
3. Weathered or greenery covered concrete cold roofs above underground garages, prefabricated garages
4. Service water containers, waste water containers and pipes
5. Retaining walls and sluices
6. Horizontal waterproofing in/on the walls and basement



## Consumption

### Waterproofing of building elements:

Soil moisture / non-standing runoff water:

- 3.5 kg/m<sup>2</sup>/approx. 2.0 mm

Standing runoff water / water under pressure:

- 4.5 kg/m<sup>2</sup>/ approx. 2.5 mm

### Subsequent waterproofing of the components in contact with the earth:

Soil moisture / non-standing runoff water:

- Minimum 3.5 kg/m<sup>2</sup>/approx. 2.0 mm

Standing runoff water / water pressure:

- Minimum 5.3 kg/m<sup>2</sup>/approx. 3.0 mm

Waterproofing according to DIN 18195 part 7 / water under pressure from the inside:

- Minimum 3.5 kg/m<sup>2</sup>/approx. 2.0 mm

### Note:

It is necessary to apply 1.1 mm as a wet coat for every mm dry film.

## Technical data

Basis:	sand/cement, polymer modified
Density of mixed mortar:	approx. 1.85 g/cm <sup>3</sup>
Adhesion strength:	> 0.5 N/mm <sup>2</sup> (ASTM D 4541:2002)
Pot life *):	approx. 60 min.
Substrate /application temp:	+5° C to + 35° C
Comp. strength 28d:	approx. 15 N/mm <sup>2</sup> (ASTM C 579)
Packaging:	25 kg bags, 6 kg bags

## Product application

### Substrate:

The substrate must be load-bearing, largely flat with an open pored texture and a closed surface finish. It must be free from gravel pockets, cavities, gaping cracks and ridges, dust and free from adhesion inhibiting substances such as e.g. oil, paint, laitance and loose areas. It may be damp but not wet. Substrates which are suitable are tight jointed concrete, render PII and PIII, flush pointed masonry work. Smooth out open textured substrates such as pre-cast concrete blocks and dense concrete blocks and uneven masonry work, with a cement-based mortar. Pre wet the substrate so that it is matt damp at the time of application. Prime very porous substrates such as aerated concrete or those containing gypsum with ASO®-Unigrund-K to improve adhesion.



1. Pour the amount of water needed in a clean container
2. Pour the total contents of a bag of **AQUAFIN®-1K** and mix until a homogeneous lump free mix is achieved. A mixing time of approx. 2-3 minutes is necessary.
3. Apply **AQUAFIN®-1K** by brush, trowel or with a suitable machine.

### Tools:

Drilling machine | Mixer | Trowel | Notched trowel





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Subject to changes. Consult current Technical Data Sheet for most recent information.

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